

WHAT IS CLAIMED IS:

1. A charge pump type power supply circuit comprising:

a plurality of switches; and

a plurality of capacitors, wherein

a supply voltage is generated by switch controlling said plurality of switches and boosting the input voltage to a voltage of n times or $-n$ times the input voltage based on a power supply clock produced by an integrated circuit using a predetermined system clock, said integrated circuit being operated using said system clock.

2. A charge pump type power supply circuit according to claim 1, wherein

said integrated circuit suspends the generation of said power supply clock in response to a power save control instruction; and

said power supply circuit suspends the generation of said supply voltage in response to the suspension of said power supply clock.

3. A driving apparatus for a display device, comprising:

a driving circuit for generating a signal to allow a display section to display, said driving circuit being operated using a predetermined system clock; and

a charge pump type power supply circuit for generating a supply voltage for a display device by boosting the input voltage to a voltage n times or $-n$ times said input voltage, said power supply circuit including a plurality of switches and a plurality of capacitors; wherein

said driving circuit generates a power supply clock using said system clock; and

said power supply circuit generates said supply voltage by switch controlling said plurality of switches based on said power supply clock.

4. A driving apparatus for a display device according to claim 3, wherein,

said driving circuit suspends the generation of said power supply clock in response to a power save control instruction; and

said power supply circuit suspends the generation of said supply voltage in response to the suspension of the supply of said power supply clock.

5. A display device having a display section and a driving apparatus for driving the display section, wherein

said driving apparatus comprising:

a driving circuit for generating a signal to allow the display section to display, said driving circuit being operated using a predetermined system clock; and

a charge pump type power supply circuit for generating a supply voltage for said display device by boosting the input voltage to a voltage n times or $-n$ times the input voltage, said charge pump type power supply circuit having a plurality of switches and a plurality of capacitors, wherein

said driving circuit further generates a power supply clock using said system clock and suspends the generation of said power supply clock based on a power save control instruction; and

said power supply circuit generates said supply voltage by

switch controlling said plurality of switches based on said power supply clock and suspends the generation of said supply voltage in response to the suspension of the supply of said power supply clock.

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